

**ABSTRACT**

A gamma camera comprising:

a plurality of pixelated detectors wherein each pixelated detector provides a detector signal responsive to photons that are incident on it;

5 a plurality of processing circuits that receive said detector signals and provide processed signals responsive to said detector signals; and

at least one printed circuit board on which said processing circuits are mounted and having conductors thereon that carry said detector signals to said processing circuits;

wherein said processing circuits are mounted on said printed circuit board at locations  
10 remote from said detectors; and

wherein said plurality of pixelated detectors form a two-dimensional planar array.